# **Beam Power Tube**

#### NOVAR TYPE

#### SPECIAL PLATE STRUCTUREª

For Color TV Horizontal-Deflection-Amplifier Applications

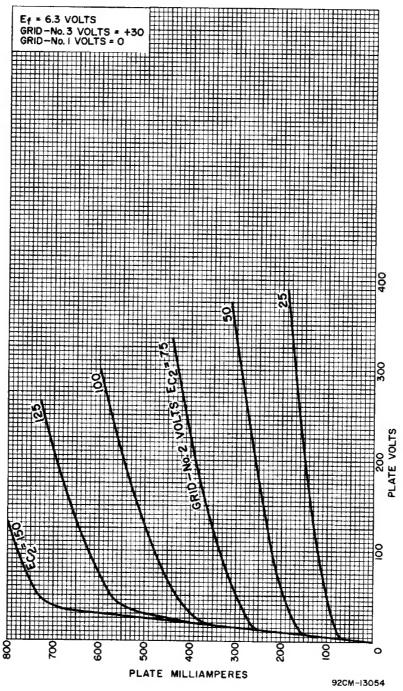
ELECTRICAL							
Heater Characteristics and Ratings  Voltage (AC or DC) 6.3 ± 0.6  Current at 6.3 V 2.500  Maximum heater-cathode voltage  Heater negative with respect to cathode:	V A						
Peak	٧						
Peak	V						
Grid No.1 to plate	pF pF pF						
MECHÂN I CAL							
Maximum Overall Length	in in in ion TI2 -I)						
Basing Designation for BOTTOM VIEW	9QL						
Pin 1 - Grid No.2 Pin 2 - Grid No.1 Pin 3 - Cathode Pin 4 - Heater Pin 5 - Heater Pin 6 - Grid No.1 Pin 7 - Grid No.2 Pin 8 - Grid No.3 Pin 9 - Do Not Use Cap - Plate							
CHARACTERISTICS							

#### CHARACTERISTICS

Plate Voltage	-	55	175	-	60	175	v
Peak Positive-Pulse					-	113	•
Plate Voltage <sup>b</sup>	5000	-	_	5000	_	-	٧
Grid-No.3 Voltage	+30	+30	+30	+30	+30	+30	v
Grid-No.2 Voltage	125	125	125	145	145	145	v
Grid-No.1 Voltage	-	0	-25	_	0	-35	v
Plate Resistance (Approx.)	-	-	5800	-	_	7000	Ω
Transconductance	-	~	9600	-	-	7500	$\mu$ mhos

Plate Current Grid-No.2 Current Grid-No.1 Voltage (Approx.) for plate mA = 1	- 5 -		130 - 2.8 - -54 -12	710° 55°	95 2.4 -60	mÅ mÅ	>
Triode Amplification Factor (Triode connection: grid No.2 connected to plate at socket)	- -DFFLI	 FCT LON	3 <sup>d</sup> -	- 1 F R	2.8 <sup>e</sup>		-
Maximum Ratin							
For operation in	_				e m		
DC Plate Supply Voltage. Peak Positive-Pulse Plate Peak Negative-Pulse Plate DC Grid-No.3 Voltage <sup>9</sup> . DC Grid-No.2 (Screen-Grid-Peak Negative-Pulse Grid-	Volta	age  tage .			. 990 . 7500 . 1100 . 75 . 220	V V V V	~
Voltage				, 	. 330	٧	
Cathode Current Peak		face			. 1200 . 350 . 5 . 30 . 250	må må W OC	
MAXIM	IUM CIR	CUIT	VALUES				
Grid-No.1-Circuit Resists For grid-resistor bias of For plate-pulsed operat (Horizontal-deflection	operati		;;; у)		. 0.47	<b>Μ</b> Ω <b>M</b> Ω	
Designed to minimize seconda "knee" discontinuites in ze b Under conditions shown in it c This value can be measured such that the maximum ratin d Plate volts = grid-No.2 vol socket; grid-No.1 volts = e Plate volts = grid-No.2 vol socket; grid-No.1 volts = cocket; grid-No.1 vol	ero-bias footnote by a me ags of t ts = 12 25. ts = 14	thod in the tube (5; gries)	nvolving will no H No.3 co	a recurret be exconnected	ent wave eeded. to cathod to cathod	form e at e at	
f This rating is applicable with the process of the following forms	where the horizent of mplified reduced what tended to the horizontal tended	ne dura contal cone hor r servi e inter levision this	tion of t scanning sizontal ce, a po ference on receiv	he volta cycle. I scanning sitive vo from "sni ers, and s 30 vol	ge pulse on a 525-1 cycle is oltage ship ivets", will to increase.	does ine, s 10 ould hich ease	

## **Average Characteristics**



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